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September 20, 2004

Commissioner for Patents

Alexandria, VA 22313-1450

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 20, 2004.

Re: U.S. Patent Application Serial No. 10/606,060 for

METHOD FOR CONTROLLING GENE EXPRESSION IN A

**CELL** 

Our Ref. No. 1392/4/3/2

Sir:

Please find enclosed in connection with the subject U.S. patent application the following documents:

- 1. Information Disclosure Statement (2 pages);
- Form PTO-1449 (6 pages) in duplicate; and 2.
- 3. A return-receipt postcard to be returned to us with the U.S. Patent and Trademark Office filing stamp thereon.

The Commissioner is hereby authorized to charge any fees associated with the filing of this correspondence to Deposit Account No. 50-0426.

Respectfully submitted,

JENKINS, WILSON & TAYLOR, P.A.

Arles A. Taylor, Jr.

Registration No. 39,395

AAT/ptw-**Enclosures** 

Customer No: 25297

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 20, 2004.

<u>PATENT</u>

Patty Wilson
Patty

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Jepson et al.

Group Art Unit: 1645

Serial No.: 10/606,060

Examiner: Unknown

Filed: June 25, 2003

Docket No.: 1392/4/3/2

Confirmation No.: 6114

METHOD FOR CONTROLLING GENE EXPRESSION IN A CELL

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

For:

In accordance with 37 C.F.R. 1.56, 1.97, and 1.98, applicants' undersigned attorney brings to the attention of the Patent and Trademark Office the following references. Forms PTO-1449 are attached hereto.

Copies of the cited documents are of record in the file history of U.S. Patent Application Serial No. 09/564,418 filed on May 3, 2000. The above-captioned application claims priority to U.S. Patent Application Serial No. 09/564,418 under 35 U.S.C. § 120, and as per 37 C.F.R. § 1.98, no copies of these cited documents are believed to be required.

Serial No.: 10/606,060

Early passage of the subject application to issue is earnestly solicited.

Although it is believed that no fee is due, the Commissioner is hereby authorized to charge any fees associated with the filing of this correspondence to Deposit Account No. 50-0426.

Respectfully submitted,

JENKINS, WILSON & TAYLOR, P.A.

Date: 09 20 2009

Ву:

Arles A. Taylor, Jr.

Registration No. 39,395

AAT/ptw

Enclosures

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FORM PT	0-164	<b>9</b> U.S. Departmen	t of Comm	Application No.:	10/606,060		
Patent and Trademark Office					Filing Date:	June 25, 2003	
List of Doo		. Oited by Annline		First Named Inventor:	Jepson		
LIST OF DOC	umeni	s Cited by Applica	ant ·	Group:	1645		
					Examiner:		
			-		Attorney Docket No.:	1392/4/3/2	
			U.S.	PATENT D	OCUMENTS		
Examiner Initial	Cite No.			Date Nam	of Patentee or Applicant of Cited Document Pages, Columns, Lines relevant passages or r figures appear		
	1.	5,424,333	6/1995	Wing	g		
	2.	5,514,578	5/1996	Hog	ness et al.		
	3.	6,610,828	8/2003	Jeps	son et al.		
	4.	6,379,945	4/2002	Jeps	son et al.	,	
			FOREIG	N PATEN	T DOCUMENTS		
Examiner Initials	Cite No.	Document Number (country code, no., k code (if known)		lication Date	Name of Patentee or Applicant	Pages, columns, lines where relevant passages appear	Ţ
	5.	0 218 571	4/19	87	EP		
	6.	0 293 358	. 11/1	988	EP		
	7.	0 615 976	9/19	94	EP		
	8.	90/08826	8/19	90	PCT		
	9.	90/14000	11/1	990	PCT		
	10.	91/04323	4/19	91	PCT		
	11.	91/13167	9/19	91	PCT		
	12.	92/003777	1/19	92	PCT	·	
	13.	92/04449	3/19	92	PCT		
	14.	92/06201	4/19	92	PCT	-	
	15.	93/03162	2/19	93	PCT		

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office List of Documents Cited by Applicant			of Commerce	Application No.:	10/606,060	
				Filing Date:	June 25, 2003 Jepson 1645	
				First Named Inventor: Group:		
			nt			
				Examiner:		
				Attorney Docket No.:	1392/4/3/2	
	16.	93/09237	5/1993	PCT		
	17.	93/23431	11/1993	PCT		-
	18.	96/27673	9/1996	PCT	·	
			OTHER DO	CUMENTS	·	.1
Examiner Initials	Cite No.	Include Author (in CAPITAL LETTERS), Title, Journal, Date, Pertinent Pages, Etc.				
19. Ayala et al. (1980) Modem Genetics, The Benjamin Cummings publicompany, Inc., p. 45					s publishing	
	20.	progesterone rece	eptor are necessa	endent conformational char ry for events that follow DN 89, Dec. 1992, pp. 11750-	A binding, Proc. Natl.	
	21.			nd Antihormone Induce Dis oid Receptor Activation", T		
	22.			992, pp. 19513-19520. Ash sited", Cell, vol. 61, Apr. 6,		
	23.	Beato, Miguel, "G pp. 335-344.	ene Regulation by	/ Steroid Hormones" Cell, v	vol. 56, Feb. 10, 1989,	
	24.	l	es from germinati	g and expression analysis on a seeds of <i>Vicia sativa</i> L.'	•	
	25.	Antimicrobial Pep	tides from <i>Mirabili</i>	n and Characterization of a signal of a si		
	26.	Carlberg, Carsten vol. 361, Feb. 18,		ear signalling pathways for 0.	vitamin D", Nature,	
	27.		•	edysteroid Receptor: Analys Insect Biochem. Molec. Bio		

FORM PTO-1449 U.S. Department of Commerce		Application No.:	10/606,060		
Patent and Trademark Office		Filing Date:	June 25, 2003		
List of Documents Cited by Applicant			First Named Inventor:	Jepson	
		s Cited by Applicant	Group:	1645	
			Examiner:		
			Attorney Docket No.:	1392/4/3/2	
	28.	Christopherson, Karen S. ct al., "Ecdys mammalian cells by a Drosophila ecdy Proc. Natl. Acad. Sci., USA, Genetics,	sone receptor and chime	eric transactivators",	
	29.	Evans, Ronald M., "The Steroid and Thyroid hormone Receptor Superfamily", Science, vol. 240, May 13, 1988, pp. 889-895.			
	30.	Goetting-Minesky, M.P. et al., "Differential gene expression in an actinohizal symbiosis: Evidence for a nodule-specific cysteine proteinase", Proc. Natl. Acad .Sci., USA, Plant Biology, vol. 91, Oct. 1994, pp. 9891-9895.			
	31.	Green, Stephen et al., "Nuclear receptors enhance our understanding of transcription regulation", TIG, vol. 4, No. 11, Nov. 1988, pp. 309-314.			
	32.	Heyman, Richard A. et al., "9-Cis Retinoic Acid Is a High Affinity Ligand for the Retinoid X Receptor", Cell, vol. 68, Jan. 24, 1992, pp. 397-406.			
	33.	Hirst, M.C. et al., "Preparation of radiolabelled hybridization probes by STS labelling", Trends in Genetics, vol. 8, No. 1, Jan. 1992, pp. 6-7.		· · · · · · · · · · · · · · · · · · ·	
	34.	Hollenberg, Stanley M. et al., "Primary human glucocorticoid receptor cDNA", 635-641.			
	35.	Imhog, Markus O. et al., Cloning of a <i>Chironornus tentans</i> Cdna Encoding a Protein (cEcRH) Homologous to the <i>Drosophila melanogaster</i> Ecdysteroid Receptor (dEeR), Insect Biochem. Molec. Biol., vol. 23, No. 1, Jan. 1993, pp. 115-124.		roid Receptor	
	36.	Jiang, Binghua et al., "Association of a Corn Callus with the Inhibition of Fall A 108, 1995, pp. 1631-1640.	· · · · · · · · · · · · · · · · · · ·		
	37.	Jindra, Marek et al., "Isolation and Devinduced GHR3 Gene of the Wax Moth Biol., vol. 24, No. 8, 1994, pp. 763-773	Galleria ,mellonella", Ins		
	38.	Kliewer, Steven A. et al., "Retinoid X retinoic acid, thyroid hormone and vita 1992, pp. 446-449.			

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		U.S. Department of Commerce	Application No.:	10/606,060	
		emark Office	Filing Date:	June 25, 2003	
List of Documents Cited by Applicant			First Named Inventor:	Jepson	
		s Cited by Applicant	Group:	1645	
			Examiner:		
			Attorney Docket No.:	1392/4/3/2	
	39.	Koelle, Michael R. et al., "The Droso Receptor, a New Member of the Ste 4, 1991, pp. 59-77.	•	•	
	40:	Kothapalli, Ravi et al., "Cloning and Receptor Gene From the Spruce Bu Developmental Genetics, vol. 17, 19	idworm, Choristoneura fun	,	
	41.	Krust, Andréet et at., "The chicken oestrogen receptor sequence: homology with verbA and the human oestrogen and glucocorticoid receptors", The EMBO Journal, vol. 5, No. 5, 1986, pp. 891-897.			
	42.	Leid, Mark et al., "Multiplicity generates diversity in the retinoic acid signally pathways", TIBS, vol. 17, Oct. 1992, pp. 427-433.			
	43.	Leid, Mark et al., "Purification, Cloning, and RXR Identity of the HeLa Cell Factor with Which RAR or TR Heterodimerizes to Bind Target Sequences Efficiently", Cell, vol. 68, Jan. 24, 1992, pp. 377-395.			
	44.	Linthorst, Huub J. et al., "Circadian expression and induction by wounding of tobacco genes for cysteinc proteinase", Plant Molecular Biology, vol. 21, 1993, pp. 685-694.			
	45.	Mangelsdorf, David J. et al., "Characterization of three RXR genes that mediate the action of 9-cis retinoic acid", Genes & Development, vol. 6, 1992, pp. 329-344.			
	46.	Oro, Anthony E. et al., "Relationship between the product of the <i>Drosophila ultraspiracle</i> locus and the vertebrate retinoid X receptor", Nature, vol. 347, Sep. 20, 1990, pp. 298-301.			
	47.	Riddihough et al., "An ecdysone response element in the Drosophila hsp27 promoter", The EMBO Journal, vol. 6, No. 12, 1987, pp. 3729-3734.			
	48.	Schena, Mark et al., "A steroid-indu Proc. Natl. Acad. Sci., USA, Genetic			
	49.	Segraves, William A., "Something C Superfamily in Drosophila", Cell, vol			

FORM PTO-1449 U.S. Department of Commerce			Application No.:	10/606,060	
Patent and Trademark Office			Filing Date:	June 25, 2003	
List of Documents Cited by Applicant			First Named Inventor: Group:	Jepson 1645	
		s Cited by Applicant			
			Examiner:		
			Attorney Docket No.:	1392/4/3/2	
50. Segraves, William A. et al., "The E775B early puff in Drosophila encode superfamily", Genes & Developmen			two new members of the	steroid receptor	
	51.	Smagghe, Guy et al., "Action of a Novel Nonsteroidal Ecdysteroid Mimic, Tebufenozide (Ril-5992), on Insects of Different Orders", Pestic. Sci., vol. 42, 1994, pp. 85-92.			
	52.	Smagghe, Guy et al., "Biological activity and receptor-binding of ecdysteroids and the ecdysteroid agonists RH-5849 and RH-5992 in imaginal wing discs of <i>Spodoptera exigua</i> (Lepidoptera:Noctuidae)", Eur. J. Entomol., vol. 92, 1995, pp. 333-340.			
	53.	Smart, Catherine M. et al., "The timing of maize leaf senescene and characterisation of senescene-related cDNAs", Physiologia Plantarum, vol. 93, 1995, pp. 673-682.			
	54.	Stemmer, Willem P.C.," Rapid evolut Nature, vol. 370, Aug. 4, 1994, pp. 38	•	DNA shuffling",	
	55.	Terras, Franky R.G. et al., "A new far proteins from Brassicaceae species",			
	56.	Thummel, Carl S. et al., "Spatial and Drosophila Development", Cell, vol. 6			
	57.	Vegeto, Elisabetta et al., "The Mecha the Conformation of the Carboxy-Ter Receptor", Cell, vol. 69, May 15, 199	minal Tail of the Human F		
	58.	Yao, Tso-Pang et al., "Drosophila ultraspiracle Modulates Ecdysone Receptor Function via Heterodimer Formation", Cell, vol. 71, Oct. 2, 1992, pp. 63-72.			
	59.	Yao, Tso-Pang et al., "Functional eco Ultraspiracle genes", Nature, vol. 366	•		
	60.	Yu, Victor C. et al., "RXRβ: A Coregu Thyroid Hormone, and Vitamin D rec Cell, vol. 67, Dec. 20, 1991, pp. 1251	eptors to their Cognate Re	• 1	

FORM PTO-1449 U.S. Department	Commerce Application No.:	10/606,060
Patent and Trademark Office	Filing Date:	June 25, 2003
list of December 4. Oit all the Assis	First Named Inventor:	Jepson
List of Documents Cited by Applican	Group:	1645
	Examiner:	
	Attorney Docket No.:	1392/4/3/2
61. Hogness, D.S., Ta Workshop, Liverpo	not, W.S., Bender, MT. and Koelle, M. [19 ol. (Abstract).	92] X Ecdysone
62. Bowie et al. (1990	Science 247: 1307-1310.	·
	) Macromolecular Sequencing and Synthe L. Liss Inc., New York, pp. 127-149.	esis (Ed. D.H.

EXAMINER _	DATE CONSIDERED
*Examiner	Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through

<sup>\*</sup>Examiner Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.